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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,815	08/18/2003	Oliver Dittmar	600.1280	4785
23280	7590	09/25/2006		
DAVIDSON, DAVIDSON & KAPPEL, LLC 485 SEVENTH AVENUE, 14TH FLOOR NEW YORK, NY 10018			EXAMINER DARNO, PATRICK A	
			ART UNIT 2163	PAPER NUMBER

DATE MAILED: 09/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/643,815	Applicant(s) DITTMAR ET AL.	
	Examiner Patrick A. Darno	Art Unit 2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-2, 5, 7-8, and 11-12 have been amended. Claims 1-12 are pending in this office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,983,232 issued to Tuan Nguyen et al. (hereinafter "Nguyen") in further view of U.S. Patent Application Publication Number 2001/0034592 issued to Peter Q. Herman (hereinafter "Herman").

Claim 1:

Nguyen discloses a method for simulating process flows and for displaying the result calculated in the simulated process flows and/or intermediate results, comprising the steps of:

inputting or selecting at least one order data set (Nguyen: column 2, lines 51-58 and column 3, lines 14-18 and column 2, lines 34-39; Note that there are "acceptance test" conditions and measurements of throughput and yield. The acceptance test is the order data set. And the measure of throughput and yield is the result of how the configured process flow responds to the input test conditions. Also note column 3, lines 17-18, "values may be read into the template". This is inputting an order data set (which is actual test data) into a process data set. This creates a link as described below.);

inputting or selecting at least one process data set (Nguyen: column 5, lines 52-61 and column 11, lines 12-19; The Designer Elements (also referred to as designer objects) are the process data sets. This is because the Designer Elements are stored models of actual machines. So by selecting a particular Designer Element, you select a particular machine. This is exactly the applicant's definition of process data sets presented in applicant's specification paragraph [0011], lines 1-7.);

calculating links between the order data set and the process data set as a function of the order data set and the process data set (Nguyen: column 3, lines 14-18; The calculating of links according to the applicant is simply the process data (or machine device or design object) interacting with the input order data set (or print job or "acceptance test") allowing for a simulation based on the two sets of data to occur. This definition is found in the applicant's specification in paragraph [0009], lines 1-4. This is what occurs in the Nguyen reference specifically on line 17-18 when it states "values may be read into the template to create the simulation object. So prior to the actual simulation, there is the device objects (process data) and input values (order data set or "acceptance test") and after they are both combined, the result is a linkage that allows the simulation to occur.);

creating a process flow from the calculated links (Nguyen: column 8, lines 63 – column 9, line 4 and column 9, lines 23-27; Note that the simulation objects are built in here and in column 3, lines 14-18. These simulation objects are built as described above as a result of linking the process data and the order data. The simulation is then created from the simulation objects. The simulations carried out in the Nguyen reference are of assembly lines (process flow) of machine objects (column 11, lines 12-24). The simulation of the assembly line objects (process flow) cannot be carried out without first creating the simulation objects (links between process data and order data). Therefore the process flow (assembly line simulation) is in fact created from the calculated links (simulation objects).);

calculating a result or intermediate results for the process flow using the order data set (Nguyen: column 3, lines 4-20; After the simulator runs the order data set ("values read into the

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template (process data or design objects)), performance results from the simulations are sent to the reporting means.); and

outputting the result or intermediate results (Nguyen: column 3, lines 22-25 and column 9, lines 28-43).

The process flow simulation method set forth by Nguyen discloses configuring objects that represent assembly line (process flow) equipment to model tasks such as processes using electrical components, manufacturing processes, and other assembly processes using parameters characterizing the operation of the given object or process (Nguyen: column 2, line 59 - column 3, line 11 and column 5, lines 45-46; Note specifically that in these two references Nguyen suggests using the simulation of process flows with respect to different types of objects (machinery) and different types of assembly and manufacturing processes.). Furthermore, the simulation method set forth by Nguyen uses this assembly line simulation to reduce the time and costs involved with the production of an assembly line (Nguyen: column 15, line 63 – column 16, lines 17). However, Nguyen does not explicitly disclose wherein the simulation method to reduce time and costs is in the graphics industry.

Herman also discloses a simulation method designed to save the time and cost incurred from using actual machinery (Herman: paragraph [0006], lines 4-9). Furthermore, Herman discloses wherein the simulation method is in the graphics industry (Herman: entire abstract and paragraph [0006]). It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teachings of Nguyen with the teachings of Herman noted above for the purpose of creating a simulation method designed to reduce the time and cost incurred using actual machinery (Herman: paragraph [0006], lines 4-9). The skilled artisan would have been motivated to improve the teachings

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of Nguyen per the above in order to create a computer model using printing presses to simulate a printing process without incurring the time and expense of using an actual printing press (Herman: paragraph [0006], lines 1-9 and Nguyen: column 16, lines 16-17).

Claim 2:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Nguyen further discloses wherein the calculating of the links between the order data set and the process data set includes an evaluation method, the evaluation method including making a query as to which process data set is capable of processing an input or selected order data set of the at least one process data set so as to define positively queried process data sets (Nguyen: column 8, line 63-column 9, line 1; The process data sets (designer objects) are queried from the spreadsheet.); writing the positively queried process data sets to a resource table (Nguyen: column 9, lines 1-2; The data returned from the spreadsheet is placed in the Transfer File.); establishing ranking of the positively queried process data sets as a function of the process flow data and the order data set; selecting the process data set with a highest ranking; and assigning the process data set with the highest ranking to the selected order data set (Nguyen: column 9, lines 1-4; The process data extracted from the spreadsheet and place in the resource table (transfer file) in order to create the simulation objects. The simulation objects, as noted above, are the result of a link between the process data set and the order data set.).

Claim 3:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Nguyen further discloses wherein the calculating of the links between order data set and process data set includes a further method, the further

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method including sequentially assigning one of the order data sets of the at least on order data sets to one or more of the process data sets; comparing the order data sets and the assigned process data sets to each other; and in each case creating a best linkage as a function of the order data set (Nguyen: column 3, lines 4-8 and column 8, lines 63-column 9, line 4).

Claim 4:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Herman further discloses wherein the order data set contains data needed for the printing job (Herman: paragraph [0050], lines 1-4; An order data set as defined in applicants specification is simply a stored print job that can be used as an input to a simulation. This is exactly what is disclosed in the Herman reference cited above.).

Claim 5:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Herman further discloses wherein the process data set contains performance specifications or operating costs of a device of the graphics industry needed for the process flow (Herman: paragraph [0052], lines 1-5 and paragraph [0053], lines 10-12 and Figs. 17 and paragraph [0058] and Fig. 20; The first reference shows that the process data set selected is actually a printing press (which is a device in the graphics industry). The second reference deals with the adjusting of settings of the printing press (process data set). Since the settings can be adjusted, there must be a default setting. And these default settings are performance specifications and operating costs dealing with the printing press.).

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Claim 6:

The combination of Nguyen and Herman discloses all the elements of claim 5, as noted above, and Herman further discloses wherein the device is a printing press or a prepress device (Herman: paragraph [0052], lines 1-5; This reference cites allowing the user to select a type of printing press.).

Claim 7:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Nguyen further discloses wherein prior to the start of the method, it is possible to access at least one process data set stored in a library (Nguyen: column 11, lines 12-19; Note that the process data (design element) is stored in a library (database). Further the reference says a user can access the process data (design element) by “selecting” it from the library (database).).

Claim 8:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above. Nguyen does not explicitly disclose wherein prior to inputting and/or selecting steps, access to the at least one order data set stored in a library is provided. However, Herman further discloses wherein prior to inputting or selecting steps, access to the at least one order data set stored in a library is provided (Herman: paragraph [0044], lines 15-25 and Fig. 20 and Fig. 9, 96 and Fig. 25; The stored order data sets (print jobs or “libraries of print images and production problems”) can be accessed (viewed) prior to selecting which one will be used for the actual simulation.).

It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the previously mentioned combination with the further

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teachings of Herman noted above for the purpose of allowing a user to view stored print jobs that could be used in a simulation (Herman: paragraph [0044], lines 15-19; The training exercises are previously stored print jobs (see paragraphs [0050]-[0051]). And the training exercises are made available through the user interface shown in Fig. 20.). The skilled artisan would have been motivated to improve the previously mentioned combination per the above such that print jobs that had caused problems when executed with an old printing press configuration could easily be executed again with a new printing press configuration allowing the user to figure out how to correct the problem (Herman: paragraph [0044], lines 15-19).

Claim 9:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Nguyen further discloses wherein the process data sets are stored and can be selected and called up from the library on a display device with the aid of a graphical user interface (Nguyen: Fig. 2 and Fig. 6 and column 7, lines 41-47).

Claim 10:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, and Herman further discloses wherein the order data sets can be selected and called up from a library on a display device with the aid of a graphical user interface (Herman: paragraph [0044], lines 15-25 and Fig. 20 and Fig. 9, 96 and Fig. 25; The stored order data sets (print jobs or “libraries of print images and production problems”) can be called up (viewed) and selected with the aid of the graphical user interfaces shown in the cited figures above.).

Claim 12:

Nguyen discloses a device for simulating process flows and for displaying the result calculated in the simulated process flows or intermediate results on a display device, comprising:

at least one user interface for inputting or selecting at least one order data set (Nguyen: column 2, lines 51-58 and abstract and column 3, lines 14-18 and column 2, lines 34-39; Note that there are “acceptance test” conditions and measurements of throughput and yield. The acceptance test is the order data set. And the measure of throughput and yield is the result of how the configured process flow responds to the input test conditions. Also note lines 17-18, “values may be read into the template”. This is inputting an order data set (which is actual test data) into a process data set. This creates a link as described below.);

at least one user interface for inputting or outputting at least one process data set (Nguyen: column 5, lines 52-61 and column 11, lines 12-19; The Designer Elements (also referred to as designer objects) are the process data sets. This is because the Designer Elements are stored models of actual machines. So by selecting a particular Designer Element, you select a particular machine. This is exactly the applicant’s definition of process data sets presented in applicant’s specification paragraph [0011], lines 1-7.);

at least one device suitable for calculating links between order data set and process data set as a function of the order data set and the process data set (Nguyen: column 3, lines 14-18; The calculating of links according to the applicant is simply the process data (or machine device or design object) interacting with the input order data set (or print job or “acceptance test” or “values read into template”) allowing for a simulation based on the two sets of data to occur. This definition is found in the applicant’s specification in paragraph [0009], lines 1-4. This is what occurs in

the Nguyen reference specifically on line 17-18 when it states “values may be read into the template to create the simulation object. So prior to the actual simulation, there is the device objects (process data) and input values (order data set or “acceptance test”) and after they are both combined, the result is a linkage that allows the simulation to occur.);

at least one device suitable for creating a process flow from the calculated links (Nguyen: column 8, lines 63 – column 9, line 4 and column 9, lines 23-27; Note that the simulation objects are built in here and in column 3, lines 14-18. These simulation objects are built as described above as a result of linking the process data and the order data. The simulation is then created from the simulation objects. The simulations carried out in the Nguyen reference are of assembly lines (process flow) of machine objects (column 11, lines 12-24). The simulation of the assembly line objects (process flow) cannot be carried out without first creating the simulation objects (links between process data and order data). Therefore the process flow (assembly line simulation) is in fact created from the calculated links (simulation objects).);

at least one device suitable for calculating the result or intermediate results for the process flow using the order data set (Nguyen: column 3, lines 4-20; After the simulator runs the order data set (“values read into the template (process data or design objects)), performance results from the simulations are sent to the reporting means.); and

at least one display or output device for displaying or outputting the results or intermediate results (Nguyen: column 3, lines 22-25 and column 9, lines 28-43).

The process flow simulation device set forth by Nguyen discloses configuring objects that represent assembly line (process flow) equipment to model tasks such as processes using electrical components, manufacturing processes, and other assembly processes using parameters characterizing the operation of the given object or process

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(Nguyen: column 2, line 59 - column 3, line 11 and column 5, lines 45-46; Note specifically that in these two references Nguyen suggests using the simulation of process flows with respect to different types of objects (machinery) and different types of assembly and manufacturing processes.). Furthermore, the simulation method set forth by Nguyen uses this assembly line simulation to reduce the time and costs involved with the production of an assembly line (Nguyen: column 15, line 63 – column 16, lines 17). However, Nguyen does not explicitly disclose wherein the simulation device to reduce time and costs is in the graphics industry.

Herman also discloses a simulation device designed to save the time and cost incurred from using actual machinery (Herman: paragraph [0006], lines 4-9). Furthermore, Herman discloses wherein the simulation device is in the graphics industry (Herman: entire abstract and paragraph [0006]). It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the teachings of Nguyen with the teachings of Herman noted above for the purpose of creating a simulation device designed to reduce the time and cost incurred using actual machinery (Herman: paragraph [0006], lines 4-9). The skilled artisan would have been motivated to improve the teachings of Nguyen per the above in order to create a computer model using printing presses to simulate a printing process without incurring the time and expense of using an actual printing press (Herman: paragraph [0006], lines 1-9 and Nguyen: column 16, lines 16-17).

2. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nguyen in view of Herman and further in view of U.S. Patent Application Publication Number 2003/0018542 issued to Hiroyuki Nakano et al. (hereinafter "Nakano").

Claim 11:

The combination of Nguyen and Herman discloses all the elements of claim 1, as noted above, but does explicitly disclose wherein the process data sets contain dimensions associated with graphics industry devices or the dimensions associated with the devices are displayed on a display device. However, Nakano discloses wherein the process data sets contain dimensions associated with graphics industry devices or the dimensions associated with the devices are displayed on a display device (Nakano: paragraph [0025] and Fig. 2; The specification database stores the dimensions of machines in a data set.).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the previously mentioned combination with the teachings of Nakano noted above. The skilled artisan would have been motivated to improve the previously mentioned combination per the above such that the detailed specifications of a machine could help a customer decide whether or not to purchase the machine (Nakano: abstract; The customer consults the specification of a machine before purchase and the specification includes the size of the machine. Using the size of the machine, the customer can determine if the machine (printing press) would fit in a desired place. If there is enough space, the customer would purchase the machine, if there is not enough space, the customer doesn't purchase the machine.).

Response to Arguments

Applicant Argues:

There is no teaching disclosure in Nguyen of "calculating links between the order data set and the process data set as a function of the order data set and the process data set" as claimed in claim 1.

The values which are entered into the template in Nguyen to create a simulation object are the values associated with a piece of equipment (see col 3, lines 5 to 7 and col. 7, 57 to 67: "values that correspond to specific operating parameters for that piece of equipment.").

The template is used to form solely information on the operating of the equipment, and does not "calculate links between the order data set and the process data set" as claimed at all.

Examiner Responds:

Examiner is not persuaded. The Examiner completely explained his position on this matter in the Examiner's first Office Action. The following is a portion of the Examiner's Office Action that may have been overlooked.

“The calculating of links according to the applicant is simply the process data (or machine device or design object) interacting with the input order data set (or print job or “acceptance test”) allowing for a simulation based on the two sets of data to occur. This definition is found in the Applicant’s specification in paragraph [0009], lines 1-4. This is what occurs in the Nguyen reference specifically on line 17-18 when it states “values may be read into the template to create the simulation object. So prior to the actual simulation, there is the device objects (process data) and input values (order data set or “acceptance test”) and after they are both combined, the result is a linkage that allows the simulation to occur.”

Because of the reasons listed above, the Examiner strongly believes Nguyen discloses “calculating links between the order data set and the process data set as a function of the order data set and the process data set” as claimed in claim 1. The rejection give under 35 U.S.C. 103(a) is upheld.

Applicant Argues:

The acceptance test only ensures “that the machine based processes and cycle times have been accurately modeled.” See col. 2, lines 51 to 54. No links are calculated to its data, and its data is not even “ordered data”

Examiner Responds:

Examiner is not persuaded. Paragraph [0019] of the Applicant's Specification shows that the "ordered data" or ordered data set is simply a sample print job. This is interpreted by the Examiner as being test data to be input into a simulation. Nguyen clearly discloses "ordered data" in the following references: Nguyen: column 2, lines 51-58 and column 3, lines 14-18 and column 2, lines 34-39.

Again, the Examiner made this interpretation clear in the Examiner's first Office Action. In response to the Applicant's accusation that the "data is not even "ordered data"", the Examiner presents a portion of the Examiner's first Office Action that may have been overlooked.

"Note that there are "acceptance test" conditions and measurements of throughput and yield. The acceptance test is the order data set. And the measure of throughput and yield is the result of how the configured process flow responds to the input test conditions. Also note column 3, lines 17-18, "values may be read into the template". This is inputting an order data set (which is actual test data) into a process data set."

The Examiner has also made clear of where the Nguyen reference discloses the calculation of links above. Based on the above interpretation, the Examiner strongly believes that the Nguyen reference does indeed disclose "ordered data" and the calculation of links as claimed. Therefore, the rejections given under 35 U.S.C. 103(a) are upheld.

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Applicant Argues:

In addition, it is respectfully submitted that it would not have been obvious to have combined Herman with Nguyen as the acceptance test is merely a check on the modeling, not a run through the model.

Examiner Responds:

Examiner is not persuaded. The Examiner believes that the 35 U.S.C. 103(a) rejection given has proper suggestion and motivation to combine. In response to this argument, the Examiner directs the Applicant to the rejection of claim 1.

Furthermore, the Examiner points the Applicant to at least the Abstract of the Nguyen reference that clearly recites, "a simulation is built and run". The rejections given under 35 U.S.C. 103(a) are upheld.

Applicant Argues:

With further respect to claim 2, none of these steps are performed in Nguyen as no links are calculated at all. Where is the establishing of a ranking as claimed?

Examiner Responds:

Examiner is not persuaded. The Examiner has clearly points out that all statistics of the simulations ran in the Nguyen reference are stored in spreadsheets. The Examiner believes that it would have been obvious to one of ordinary skill in the art to rank the simulation results given the mathematical tools provided by a spreadsheet application.

The rejection given under 35 U.S.C. 103(a) is upheld.

Applicant Argues:

With respect to claim 3, none of these steps are disclosed as well. Where is a best linkage created in Nguyen?

Examiner Responds:

Examiner is not persuaded. The Examiner has clearly cited the passages of creating a best linkage as Nguyen: column 3, lines 4-8 and column 8, line 63 – column 9, line 4. At the very least, these references show the assigning of an ordered data set to a process data set as claimed.

Furthermore, the Examiner points out that all results of simulations are output and stored in spreadsheets. The purpose of running a simulation is to determine the best or optimal configuration before performing the real task. Therefore, the Examiner asserts that it is obvious to one of ordinary skill in the art to use the simulation results stored in the spreadsheets to determine a ‘best link’ or optimal configuration of a process flow.

The rejection given under 35 U.S.C. 103(a) is upheld.

Applicant Argues:

With respect to claim 12, Nguyen does not have any device suitable for calculating links as claimed.

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Examiner Responds:

Examiner is not persuaded. The Examiner clearly explained the calculation of links above. Since the calculation of links occurs, there must be a device suitable for calculating links as claimed. The rejection under 35 U.S.C. 103(a) is upheld.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick A. Darno whose telephone number is (571) 272-0788. The examiner can normally be reached on Monday - Friday, 9:00 am - 5:30 pm.

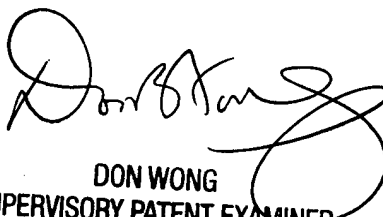
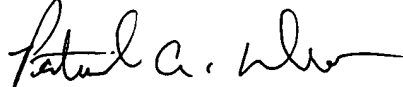
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PD

Patrick A. Darno
Examiner
Art Unit 2163



DON WONG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100